



XCI-231.3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Paul A. Nysen, et al.
Serial No. : 10/646,139
Filed : 8/20/03
For : BACKSCATTER TRANSPONDER INTERROGATION DEVICE

September 24, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. paragraph 1.98(d), copies of the references listed on the enclosed reference citation sheets from the parent application U.S. Serial No. 08/914,284 filed 8/18/97 are likewise found in the parent application.

Respectfully submitted,

Steven M. Hoffberg
Reg. No. 33,511

MILDE & HOFFBERG, LLP
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By 

Date 9/24/03



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XCI- 227

Sheet 1 of 3

SERIAL NO.

08/914,284

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

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APPLICANT

PAUL A. NYSEN

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8/18/97

GROUP

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VA	4 7 3 9 3 2 8	4/19/88	KOELLE ETAL	342/44		7/14/8
VB	4 8 8 8 5 9 1	12/19/89	LANDT ETAL	342/44		10/6/8
VC	4 0 5 9 8 3 1	11/22/77	EPSTEIN	343/6.8R		10/6/7
VD	4 4 8 4 1 6 0	11/20/84	RIHA	333/195		3/8/8
VE	4 6 0 4 6 2 3	8/5/86	SKEIE	343/6.8R		6/30/8
VF	4 6 0 5 9 2 9	8/12/86	SKEIE	343/6.8R		6/30/8
VG	4 6 2 0 1 9 1	10/28/86	SKEIE	342/51		6/30/8
VH	4 6 2 3 8 9 0	11/18/86	NYSEN	342/44		6/30/8
VI	4 6 2 5 2 0 7	11/25/86	SKEIE	342/51		6/30/8
VI	4 6 2 5 2 0 8	11/25/86	SKEIE ETAL	342/51		6/30/8
VK	4 7 0 3 3 2 7	10/27/87	ROSSETTI ETAL	342/44		10/31/8

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VA	4724443	2/9/88	NYSEN	343/700ms		10/31/85
VB	4725841	2/16/88	NYSEN ET AL	342/44		6/30/83
VC	4734698	3/29/88	NYSEN ET AL	342/44		10/31/85
VD	4737789	4/12/88	NYSEN	342/51		12/2/86
VE	4737790	4/12/88	SKEIE ET AL	342/51		3/3/86
VF	4951057	8/21/90	NAGEL	342/51		11/13/81
VG	5095240	3/10/92	NYSEN ET AL	310/313R		11/13/80
VH	5182570	1/26/93	NYSEN ET AL	343/795		12/4/91
VI	3273146	9/13/66	HURWITZ	342/51		8/7/64
VJ	3706094	12/12/72	COLE ET AL	343/6.55		2/26/70
VK	3755803	8/28/73	COLE ET AL	340/280		3/31/70

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL YES
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FOREIGN PATENT DOCUMENTS

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BY APPLICANT

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U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS SUB	SUBCLASS	FILING IF APPR
5019815	5/28/91	LEMELSON ET AL	340/933		3/3/87
4288343	9/8/81	LOUDERBACK	252/408		3/22/79
4288689	9/8/81	LEMELSON ET AL	235/435		10/12/79
3273146	9/13/66	H. HURWITZ	342/51		8/7/64
5144313	9/1/92	KIRKNES	342/44		4/24/91
3981011	9/14/76	BELL, III	313/65LC		3/31/75
4263595	4/21/81	VOGEL	343/655S		5/15/79
4143340	3/6/79	HUNSINGER	333/151		9/1/76
4201964	5/6/80	NORO ET AL (333/151		6/20/78
3810257	5/7/74	JONES ET AL	333/30R		2/1/73
4267534	5/12/81	TANSKI	333/153		5/23/80

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS SUBCLASS	SUBCLASS	TRANSL. YES
A 2189788	9/17/87	AUSTRALIA	G07C 005/00		✓
6661181	1/25/80	AUSTRALIA	G01K 11/22		✓
9000043	2/6/90	AUSTRALIA	H04B 1/59		✓
8900470	11/3/89	AUSTRALIA	H03H 9/145		✓
0089617	3/16/83	GERMANY	H03H 9/145		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

GORUK, WILLIAM; OPTICAL PROBING MEASUREMENTS OF SURFACE WAVE
GENERATION AND REFLECTION IN INTERDIGITAL TRANSDUCERS ON
LiNbO₃; 11/80; pp. 341-354CAMBIAGGIO, EDMOND; SAW REFLECTION FROM CONDUCTING STRIPS
ON LiNbO₃; 9/79; pp. 340-344

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U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS SUBCLASS	SUBCLASS	FILING IF APPR
4307356	12/22/81	ARAI	333/194		7/3/80
4096477	6/20/78	EPSTEIN ET AL	343/655		4/22/77
4028649	6/7/77	KOMATSU ET AL	333/72		12/19/75
4263571	4/21/81	KINOSHITA ET AL	333/194		11/15/79
4166258	8/23/77	TSENG	333/195		8/29/74
4410823	10/13/83	MILLER ET AL	310/313D		11/13/81
3845420	10/29/74	HOLLAND ET AL	333/30R		3/2/73
3931597	1/6/76	CHO ET AL	333/30R		2/4/74
4217564	8/12/80	AUTRAN	333/152		9/15/78
3801935	4/2/74	MITCHELL	333/72		7/12/72
1494031	1/15/85	BARNES ET AL	310/313B		3/16/83

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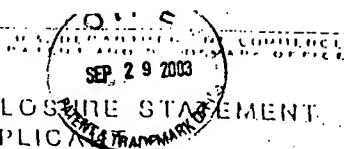
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES NO
W002485	11/13/80	JAPAN	H03H	9/145	
56153817	11/28/81	JAPAN	H03H	9/145	✓
56122215	9/25/81	JAPAN	H03H	9/145	
3400184	10/8/84	AUSTRALIA	H04B	1/59	✓
1228911	11/3/87	CANADA	G01S	9/145	✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

WILLIAMSON, R.C.; REFLECTIVE ARRAY MATCHED FILTER FOR A 16-PULSE
RADAR BURST; pp. 1325-1329DEVRIES, ADRIAN; REFLECTION OF A SURFACE WAVE FROM THREE
TYPES OF 1D TRANSDUCERS; pp. 280-285IEEE TRANSACTIONS ON SONICS AND ULTRASONICS; 1/73; Vol.
SH-20, No. 1, pp. 42, 187-204

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U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	4 9 1 2 4 7 1	3/27/90	TYBURSKI ETAL (PARTIAL)	342/42		11/3/83
VII	4 1 0 6 0 2 0	8/8/78	JOHNSON	343/14		7/21/77
VIII	4 0 4 4 3 5 5	8/23/77	EDVARDSSON	343/14		2/13/76
IX	2 8 1 7 0 1 2	12/17/57	H. C. KENDALL	342/42		2/20/52
X	3 8 1 8 5 2 8	4/15/75	MAJEAN	343/6555		10/12/73
XI	3 5 2 1 0 8 0	7/21/70	M. JANCO ETAL	342/44		1/16/69
XII	3 2 0 9 3 5 0	9/23/65	R. K. DAVIS ETAL	340/82534		10/4/63
XIII	4 2 8 8 5 2 4	6/14/83	WALTON	235/380		9/16/81
XIV	4 1 5 1 5 2 5	4/24/79	STRAUCH ET AL	343/65R		6/28/77
XV	4 0 2 3 1 6 7	5/10/77	WAHLSTROM	343/6555		6/16/75
XVI	3 1 3 7 9 1 1	6/5/73	SAKURAGI ETAL	343/6555		8/17/70

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES/NO
DE	2 6 0 4 1 0 5	2/3/76	GERMANY	H03H	9/00	✓
DE	2 5 2 1 2 9 0	5/13/75	GERMANY	H03H	9/145	✓
DE	3 4 3 8 0 5 1	10/17/84	GERMANY	G01S	13/74	✓
CA	1 2 2 8 9 1 2	11/3/87	CANADA	G01S	13/80	✓
AP	1 4 1 3 4 8 6	12/29/72	AUSTRALIA U.K.	H03B	5/32	✓

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VI	HAYDL, WILLIAM; SURFACE ACOUSTIC WAVE RESONATORS
VII	CROSS, PETER S; SURFACE-ACOUSTIC-WAVE RESONATORS
VIII	STOCKER, HELMUT; AKUSTISCHE OBERFLACHENWELLEN-BAUELEMENTE. pp. 87-93

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U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	4339753	7/13/82	MAWHINNEY	343/655		12/19/79
VII	4480150	10/30/84	JONES ET AL	174/52	FP	7/12/82
AC	4644384	2/17/87	CHAROENSAKVIROCHANA	357/74		2/2/84
AD	4330790	5/13/82	BURNS	357/70		3/24/80
AE	4003073	11/1/77	HELDA ET AL	357/70		10/10/72
AF	4234666	11/18/80	GURSKY	428/573		7/26/78
AG	4706105	11/10/87	MASUDA ET AL	357/74		6/12/86
AII	4672418	6/9/87	MORAN ET AL	357/70		4/8/85
AI	4331740	5/25/82	BURNS	428/572		4/14/80
AJ	3909838	9/30/75	BEYERLEIN	357/70		8/1/73
AK	4141712	2/27/79	ROGERS	65/36		7/18/77

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLI YES
AS	847910	6/26/85	REPUBLIC of SOUTH AFRICA	H04B	-	✓
AT	1298381	2/26/69	ENGLAND	H04B	7/00	✓
AV	847909	6/26/85	REPUBLIC of SOUTH AFRICA	H04B	-	✓
AW	2165411	10/9/84	ENGLAND	H03H	9/42	✓
AX	2165425	10/9/84	ENGLAND	H03B	23/00	✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

IX	WILLIAMSON, RICHARD, REFLECTION GRATING FILTERS; DEPARTMENT OF THE ARMY, pp. 381-442
IS	HOLLAND, MELVIN, PRACTICAL SURFACE ACOUSTIC WAVE DEVICES, PROCEEDINGS OF THE IEEE Vol 62, No 5 5/74, p 582-611
IT	OMNIDIRECTIONAL ANTENNAS, BUTTERWORTH & CO. CHAPTER 2; pp 25-33
	DATE CONSIDERED

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INFORMATION DISCLOSURE STATEMENT
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APPLICANT

PAUL A. NYSEN

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PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	3870994	3/11/75	MCCORMICK ET AL	343/65R		12/22/72
VII	4247701	11/27/81	HENRIQUES	343/65L		8/8/79
AC	3513470	5/19/70	G. RABOW	342/51		7/7/58
AD	4180815	12/25/79	HILL	343/65R		1/20/78
AE	3665480	5/23/72	FASSETT	343/754		1/23/69
AF	4260988	11/7/81	YANAGISAWA ET AL	343/700m		4/4/79
AG	4423392	12/27/83	WOLFSON	333/116		1/30/81
AH	4242685	12/30/80	SANFORD	343/770		4/27/79
AI	4241352	12/23/80	ALSPAUGH ET AL	343/700m		9/15/76
AJ	4320402	3/16/82	BOWEN	343/700ms		7/7/80
AK	4589422	5/20/86	JAMES ET AL	128/804		2/3/84

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLI YES
EP	0513007	11/13/90	EUROPE	H03H	9/02	✓
GB	2142475	1/16/85	ENGLAND	H04B	1/59	✓
DE	2524571	6/3/75	GERMANY (US 3984835)	H04B	7/15	✓
GB	2165423	10/9/84	ENGLAND (US 4726841)	H04B	1/59	✓
AP	2813753	3/30/78	GERMANY (US 4209783)	G01S	9/56	✓

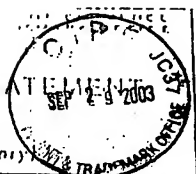
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VI	KEENAN, ROBERT; PRIVATE FIRM PROFITS FROM ELECTRONIC TOLLS; 5/96; WIRELESS SYSTEMS DESIGN; P. 24
VS	TECHNOLOGY A GENERATION AHEAD; AMTECH BROCHURE; pp 1-8, INSERT
VI	ALLAN, ROGER; WIRELESS TRANSCEIVER WITH MICROMACHINED SENSOR DETECTS BOTH TIRE PRESSURE AND TEMPERATURE; TECHNOLOGY ADVANCES; ELECTRONIC DESIGN; 12/16/96

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INFORMATION DISCLOSURE STATEMENT
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APPLICANT PAUL A. NYSEN

FILING DATE 8/18/97 GROUP

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPN
VA	4554549	11/19/85	FASSETT ET AL	343/100MS		9/19/83
VB	4477813	10/16/84	WEISS	313/200MS		8/11/82
VC	4110653	8/29/78	HARTEMANN	310/313		3/25/77
VD	4072915	2/7/78	MITCHELL	333/72		9/16/76
VE	3869682	3/4/75	HEEKS ET AL	332/11R		4/10/74
VF	4462011	7/24/84	WARD	333/154		12/27/82
VG	3600710	8/17/71	ADLER	333/72		8/12/68
VH	3936774	2/3/76	MELLON ET AL	333/30R		3/14/74
VI	4155056	5/15/79	CROSS ET AL	333/195		8/25/77
VJ	4434383	2/28/84	CHO ET AL	310/313R		1/10/83
VK	3898592	8/5/75	SOLIE	333/72		5/8/74

FOREIGN PATENT DOCUMENTS

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VM						
VN						
VO						
VP						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

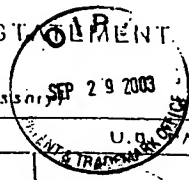
VR	WALKER, HAROLD; VPSK MODULATION TRANSMITS DIGITAL AUDIO AT 15.6/5/HZ; WIRELESS SYSTEMS DESIGN; 12/96; pp 38-42
VS	GROSSMANN, JOHN; THE WIRING OF THE GREEN; INC. TECHNOLOGY; 1996; No 4; pp 55-58
VT	A SPREAD SPECTRUM CHIP FOR RIC APPLICATIONS; MICRON COMMUNICATIONS INC; MICROWAVE JOURNAL; 11/96; pp 144-148

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INFORMATION DISCLOSURE STATEMENT
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APPLICANT PAUL A. NYSEN

FILING DATE 8/18/97 GROUP

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPA
VI	4 2 4 2 6 7 1	12/30/80	PLOWS	340/572		12/8/78
VII	4 9 3 1 6 6 4	6/5/90	KNOLL	307/10.3		3/2/88
AC	3 9 6 1 2 9 0	6/1/76	MOORE	333/30R		2/7/75
AD	4 6 9 9 6 8 2	10/13/87	TAKISHIMA	156/292		10/16/86
AE	4 6 2 5 1 3 4	11/25/86	NIITSUMA ET AL	333/150		6/27/83
AF	4 4 2 2 0 5 5	12/20/83	CULLEN ET AL	333/151		10/30/81
AG	4 3 4 5 3 9 7	7/4/89	HERRICK ET AL	310/348		3/24/86
AH	4 9 3 3 5 3 8	6/12/90	GREER	310/313D		12/23/88
AI	4 2 1 3 1 0 4	7/15/80	CULLEN ET AL	333/150		9/25/78
AJ	4 7 4 5 4 0 1	5/17/88	MONTEAN	340/572		9/9/85
AK	5 0 2 7 1 0 7	6/25/91	MATSUNO ET AL	340/572		6/27/89

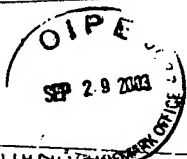
FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES
AL						
AM						
AN						
AO						
AP						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VI	TUTTLE, JOHN: INTEGRATED CIRCUIT SIMPLIFIES DESIGN OF RFID SYSTEMS; MICROWAVES + RF; 10/96 pp 103-109
VS	GUO, YANPENG: IF TRANSCEIVER SERVES DIGITAL CELLULAR/PCS; MICROWAVES + RF; 10/96 pp 77-84
VI	ROBINSON, GAIL: IMPULSE RADAR MICROPOWERED FOR SENSOR APPS. EET; 1/20/97 pp 33 + 36

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U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
3025524	3/13/62	C. H. THIES	343/823		5/6/59
3845490	10/29/74	MANWARREN ETAL	343/821		5/3/73
4138681	2/1/77	DAVIDSON ETAL	343/702		8/29/77
3689929	9/5/72	MOODY	343/802		11/23/70
4800392	1/24/89	GARAY ETAL	343/700		1/8/87
4642640	2/10/87	WOOLSEY ETAL	342/42		4/25/83
4259673	3/31/81	GURETZKY	343/825		6/5/79
4400102	8/23/83	TANAKA	343/790		4/13/81
5654693	8/5/97	COCITA	340/572		4/10/96
4782345	11/1/88	LANDT	343/727		7/29/86
5030807	7/9/91	LANDT ETAL	235/375		1/16/90

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES

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SCHREIER, PAUL, TECHNOLOGY REGS DICTATE MULTIPLE DECISIONS
FOR WIRELESS LINKS. PERSONAL ENGINEERING, 2/97, pp 29-39

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